

## Dryconstruction specialist: Prefabricated units from BEKA

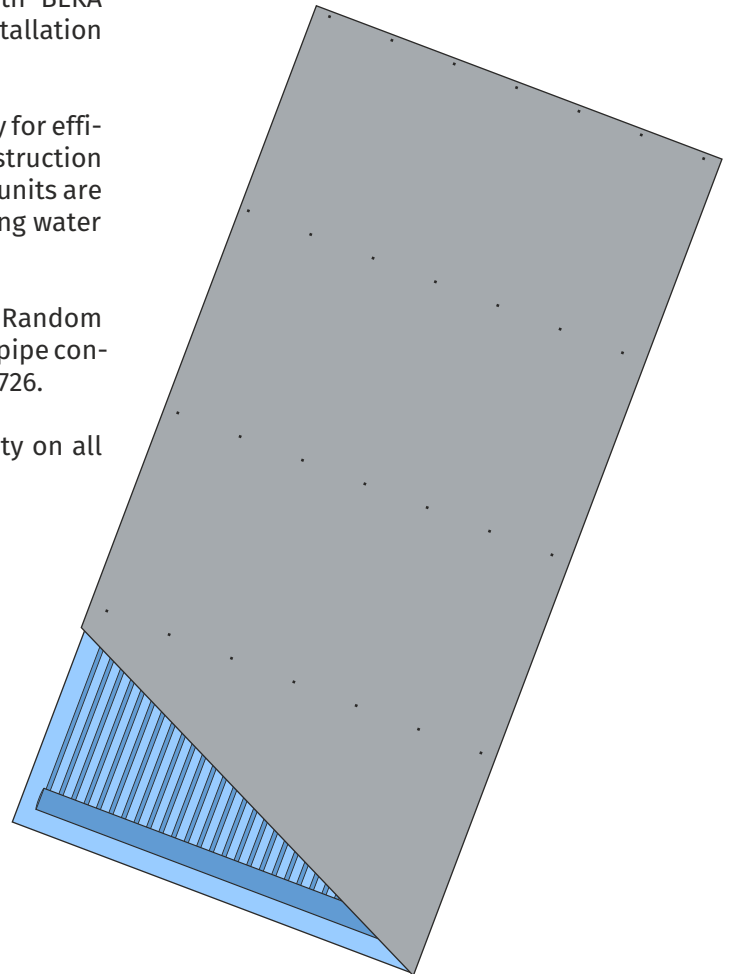
BEKA prefabricated units are cooling/heating elements especially designed for dry-lined construction. During the practical assembly of the BEKA prefabricated elements, dry construction surfaces with cooling or heating function are created in one work step.

The heart of the BEKA prefabricated units are the proven BEKA capillary tube mats or the oxygen diffusion-tight BEKA single pipe. Prefabricated elements with BEKA capillary tube mats are particularly thin with a height of 12.5 mm and have a very good heating/cooling performance. Due to the patented arrangement of the capillary tube mats in the composite units, the single capillary tubes are largely protected from external influences. Prefabricated units with BEKA Single Pipe are only slightly thicker with an installation height of 15 mm.

BEKA prefabricated units are prepared in the factory for efficient installation, so that only the usual dry-construction work has to be carried out. The BEKA prefabricated units are easily and safely connected to the cooling or heating water circuit via quick action couplings and flexible hoses.

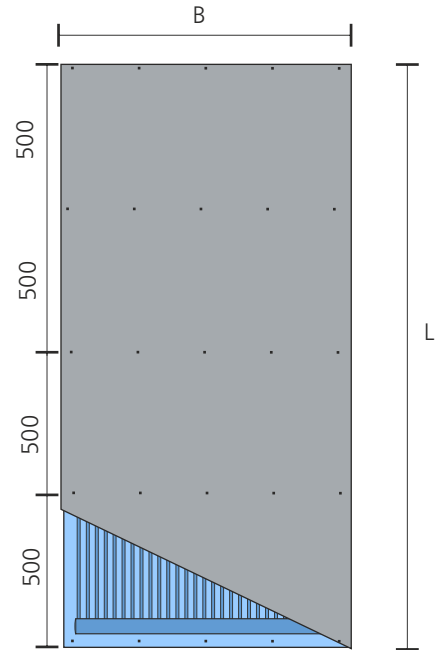
As material for the BEKA mats only Polypropylene Random Copolymer Type 3, DIN 8078 is used. The BEKA single pipe consists of PE-RT Type I, oxygen-tight according to DIN 4726.

A 100% quality control as well as a 15 year warranty on all BEKA products ensure the constant high quality.



### B.GK.12 | Pre-fabricated unit for ceiling

Arrangement	12,5 mm Plasterboard capillary tube mat (Polypropylene) 20 mm Extruded foam
Ø Collector Pipe Ø Capillary Tube Capillary tube distance	20 x 2 mm 3,35 x 0,5 mm 10 mm
Length (L) Width (B)	1500 - 2000 mm 600 mm Pre-drilled for fastening in 500 mm grid
Massis filled Active area Water contents	14 kg 1,2 m <sup>2</sup> 0,46 l/m <sup>2</sup>
cooling capacity* heating capacity* allow. heating water temp. Operating pressure	76 W/m <sup>2</sup> bzw. 64 W/m <sup>2</sup> 150 W/m <sup>2</sup> bzw. 135 W/m <sup>2</sup> 45° C 4 bar
Connetion variation with quick- action couplings	11, connections outside
Operation area	Dry-build heating/cooling ceiling



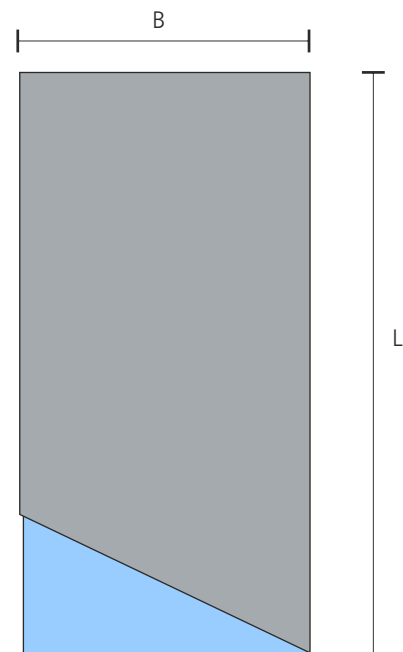
Ordering example:

BEKA Pre-fabricated unit ceiling Type B.GK12 Length 2000 mm Width 600 mm, 2 connections outside:  
B.GK.12.2000.0600.11 - Type of mat K.G10

\*Capacity achieved under defined conditions.

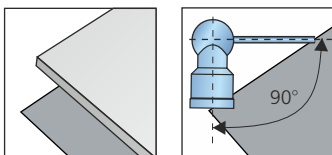
### B.GB.12 | Pre-fabricated unit - Dummy element for ceiling

Arrangement	12,5 mm Plaster-board 30 mm Extruded foam
Length (L) Width (B)	1500 - 2000 mm 600 mm
Massis	3.3 kg / 13,2 kg
Operation area	Tailoring sheet for cooling- and heating ceilings with the pre- fabricated unit B.GK.12



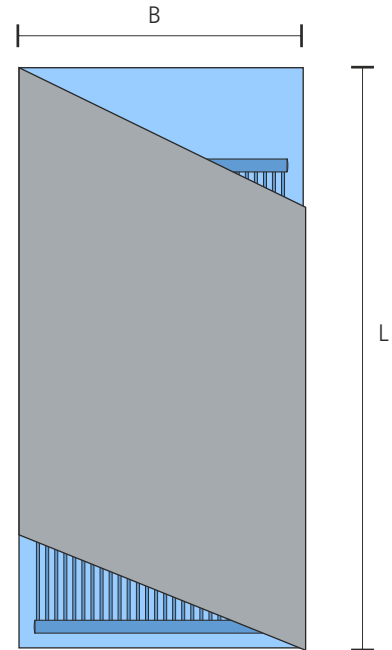
Ordering example:

BEKA Pre-fabricated Dummy element Typ B.GK12 Length 2000 mm Width 600 mm:  
B.GB.12.2000.0600.00



### B.GK.12 | Pre-fabricated unit for Wall

Arrangement	12,5 mm Plaster-board capillary tube mat (Polypropylene) 30 mm Extruded foam
Ø Collector Pipe Ø capillary tube Capillary tube distance	20 x 2 mm 3,35 x 0,5 mm 10 mm
Length (L) Width (B)	2600 mm 600 mm pre-drilled for fixing on a stand
Massis filled Active area water contents	17,8 kg 1,2 m <sup>2</sup> 0,46 l/m <sup>2</sup>
cooling capacity* heating capacity* allow. heating water temp. Operating pressure	76 W/m <sup>2</sup> bzw. 49 W/m <sup>2</sup> 150 W/m <sup>2</sup> bzw. 96 W/m <sup>2</sup> 45° C 4 bar
Connection variation with quick-action couplings	11, connections outside
Operation area	Dry-build heating/cooling walls



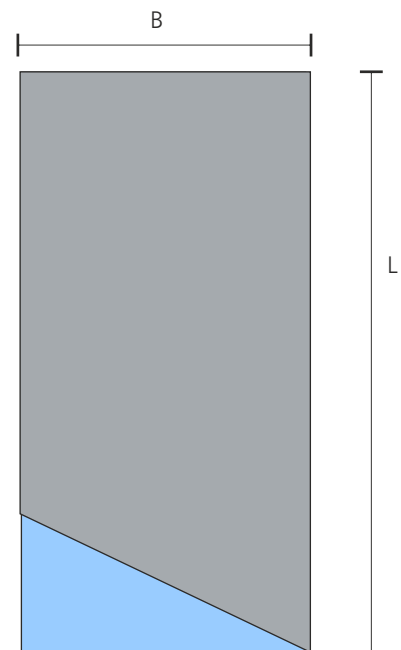
Ordering example:

BEKA Pre-fabricated unit Wall Type B.GK12 Length 2600 mm Width 600 mm, 2 connections outside:  
B.GK.12.2600.0600.11 - Type of mat K.G10

\*Capacity achieved under defined conditions.

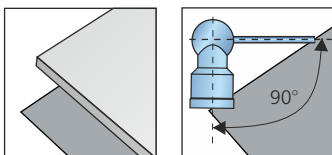
### B.GB.12 | Pre-fabricated unit - Dummy element for Wall

Arrangement	12,5 mm Plaster-board 30 mm Extruded foam
Length (L) Width (B)	2600 mm 600 mm
Massis	16,8 kg
Operation area	Tailoring sheet for heating- and cooling walls with pre-fabricated unit B.GK.12



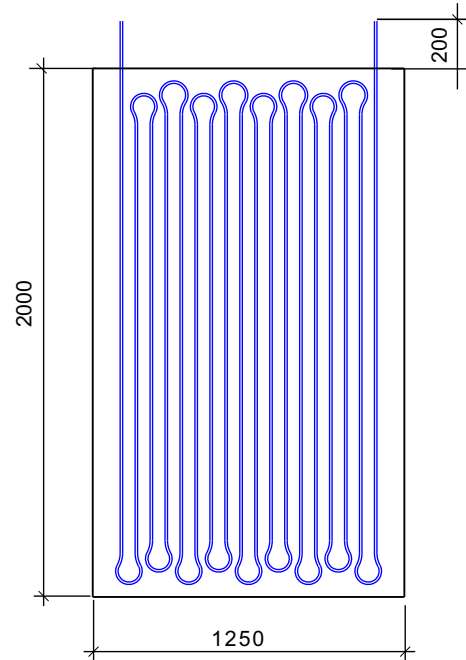
Ordering example:

BEKA Pre-fabricated Dummy element Typ B.GK12 Length 2600 mm Width 600 mm:  
B.GB.12.2600.0600.00



### B.FR.150 | Pre-fabricated unit single pipe

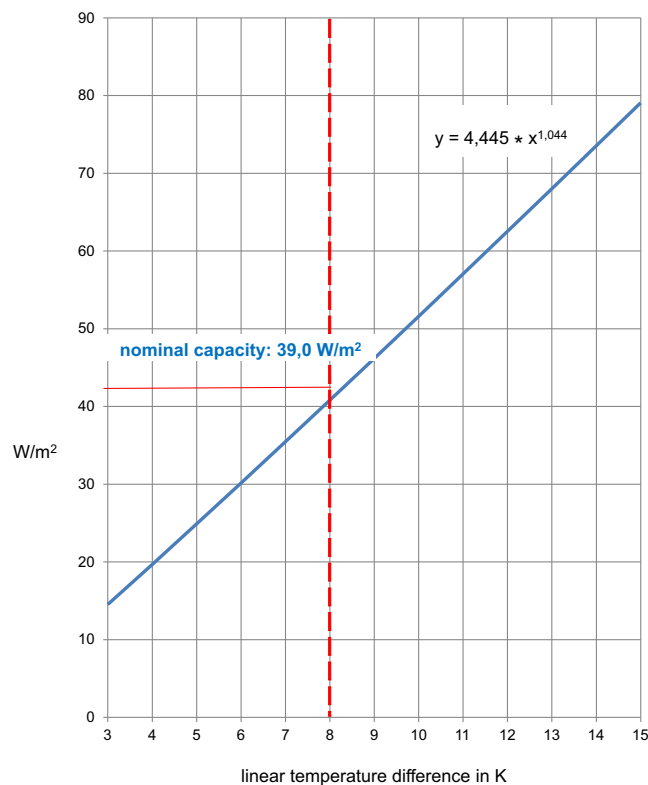
Arrangement	15 mm Plaster-board BEKA single pipe PE-RT 5-layer composite pipe, oxygen diffusiontight
Ø Pipe	10 x 1,1 mm
Length (L) Width (B)	2000 mm 1250 mm (other dimensions on request)
Color	untreated
Massis filled Active area Water contents	26,0 kg (9,39 kg/m <sup>2</sup> ) 2,5 m <sup>2</sup> 1,375 l (0,55 l/m <sup>2</sup> )
Cooling capacity Heating capacity Allowed heating water temp. Allowed operating pressure	39 W/m <sup>2</sup> at ΔT 8 K 57,04 W/m <sup>2</sup> ΔT 15 K 60°C 10 bar
Connection	with quick-action couplings
Operation area	heating/cooling ceilings



Ordering example:

BEKA Pre-fabricated single pipe Type B.FR.150 Length 2000 mm Width 1250 mm, 2 connections: B.FR.150.2000.1250.20

Cooling capacity pre-fabricated unit single pipe B.FR.150



Heating capacity pre-fabricated unit single pipe B.FR.150

